

# **EXHIBIT 1**


## **PART 2**

**FILED UNDER SEAL**

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<div data-bbox="261 1140 761 1379"></div> <div data-bbox="493 464 761 1037"></div> <div data-bbox="829 1428 868 1608"><p>See also, e.g.,</p></div> <div data-bbox="829 243 868 1425"></div>

**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033**  
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Claim 1	Accused Instrumentalities
	 <p data-bbox="764 247 867 1612">Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p>

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Claim 1	Accused Instrumentalities
	<div data-bbox="261 808 761 1041" data-label="Image"> </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. See, e.g., <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers]; <a href="https://www.google.com/chromecast/built-in/apps/">https://www.google.com/chromecast/built-in/apps/</a>.</p> <p>Each Cast-enabled display is also programmed with the capability to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled display to at least one other Cast-enabled media player, which is demonstrated by the fact that the Cast-enabled computing device displays an indicator that playback responsibility for the remote playback queue has been successfully transferred to the at least one other Cast-enabled media player that takes the form of a “Cast button” that is “filled in,” turns “dark grey,” and/or displays an indication associated with the Cast-enabled media player (among other factors confirming that the Cast-enabled display has detected an indication that playback responsibility for the remote playback queue has been successfully transferred to at least one Cast-enabled media player). See, e.g., <a href="https://support.google.com/googlenest/answer/9563059?hl=en-IN">https://support.google.com/googlenest/answer/9563059?hl=en-IN</a> [Move media from one cast device to another].</p>



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Claim 1	Accused Instrumentalities
	<p>Cast-enabled displays installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos:</p> <div data-bbox="378 932 725 1434"></div> <div data-bbox="378 375 725 856"></div> <p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div data-bbox="907 648 1196 1127"></div> <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Representative examples of other evidence demonstrating this functionality are summarized below.</p>

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Claim 1	Accused Instrumentalities
	<p><u><i>YouTube, YouTube Music, YouTube TV, &amp; YouTube Kids apps</i></u></p> <p>As noted above, for the first time on February 3, 2022, Google proposed a construction of the term “playback queue” that would require “[a]n ordered list of multimedia items that is selected by the user for playback,” and it appears Google intends to argue that the accused [REDACTED] queue is not a “remote playback queue” because it is not “[a]n ordered list of multimedia items that is selected by the user for playback.” However, even if the Court were to adopt such a construction for “playback queue,” Sonos maintains that the accused [REDACTED] queue would still amount to the claimed “remote playback queue” either literally or at the very least under the DoE for all of the reasons explained above in connection with claim limitation 1.4, and because of this, each Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids apps would still satisfy claim limitation 1.8 either literally or at the very least under DoE.</p> <p>For instance, because a [REDACTED] queue literally amounts to a “remote playback queue” for the reasons explained above, the foregoing functionally literally amounts to the claimed functionality of claim limitation 1.8, which involves “detecting an indication that playback responsibility for the <i>remote playback queue</i> has been successfully transferred from the computing device to the at least one given playback device.”</p> <p>Moreover, to the extent that the Court adopts Google’s construction of “playback queue” and Google then later tries to argue that a the [REDACTED] queue does not literally amount to an “ordered list of multimedia items that is selected by the user for playback” unless every single media item in the [REDACTED] queue is directly selected by the user, the relevant functionality carried out by a Cast-enabled computing device with respect to a [REDACTED] queue containing at least one media item that was directly selected by a user and other items that were not directly selected by a user (e.g., media items identified by a YouTube service based on the user’s selection) still satisfies claim limitation 1.8 (as well as the other claim limitations that refer to a “remote playback queue”) under DoE. This is because there is merely an insubstantial difference between (i) an indication of successful transfer of playback responsibility for a “remote playback queue” in which all of the media items were directly selected by a user and (ii) an indication of successful transfer of playback responsibility for a “remote playback queue” in which only the initial media item was directly selected by the user while the other media item was identified based on the user’s selection of the initial media item. Indeed, a Cast-enabled computing device performs the same function (e.g., detecting an indication that playback responsibility for the [REDACTED] queue has been successfully transferred to a Cast-enabled media player),</p>

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Claim 1	Accused Instrumentalities
	<p>in the same way (e.g., receiving a communication comprising the indication over a data network), to achieve the same result (e.g., confirmation that playback responsibility for the [REDACTED] queue has been successfully transferred to the Cast-enabled media player) <i>regardless</i> of whether the media items in the [REDACTED] queue were all directly selected by a user or only the initial media item in the [REDACTED] queue was directly selected by the user and the rest were identified based on the user’s selection.</p> <p>In addition to the evidence cited above for limitation 1.7 and the YouTube, YouTube Music, and YouTube TV apps screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>Representative excerpts of Google’s YouTube app source code<sup>31</sup> related to the aforementioned functionality include:</p> <p>[REDACTED]</p>

[REDACTED]

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Claim 1	Accused Instrumentalities

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Claim 1	Accused Instrumentalities
	<p>Representative excerpts of Google’s YouTube TV app source code<sup>33</sup> related to the aforementioned functionality include:</p> <div data-bbox="315 186 1333 1661" style="background-color: black; height: 700px; width: 100%;"></div>

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Claim 1	Accused Instrumentalities
	<div data-bbox="228 317 487 1518" data-label="Text"> <p>[REDACTED]</p> </div> <div data-bbox="560 233 631 1610" data-label="Text"> <p>Representative excerpts of Google's Cast-enabled media player source code<sup>35</sup> related to the aforementioned functionality include:</p> </div> <div data-bbox="641 184 867 1656" data-label="Text"> <p>[REDACTED]</p> </div> <div data-bbox="878 233 985 1610" data-label="Text"> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> </div> <div data-bbox="1024 1455 1060 1610" data-label="Section-Header"> <p><u><i>Spotify app</i></u></p> </div> <div data-bbox="1097 233 1169 1610" data-label="Text"> <p>The evidence cited above for limitation 1.7 and the Spotify app screenshots shown above demonstrates that each Cast-enabled control device installed with the Spotify app is programmed with this functionality.</p> </div> <div data-bbox="1206 233 1315 1610" data-label="Text"> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> </div>

[REDACTED]

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Claim 1	Accused Instrumentalities
	<p data-bbox="235 1308 267 1610"><u><b><i>Cast-Enabled Displays</i></b></u></p> <p data-bbox="310 247 412 1610">In addition to the evidence cited above for limitation 1.7 and the Cast-enabled display screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <div data-bbox="443 210 782 1564" style="background-color: black; height: 150px; margin: 10px 0;"></div> <div data-bbox="820 210 1039 1610" style="background-color: black; height: 150px; margin: 10px 0;"></div> <p data-bbox="1081 247 1149 1610"><u>Exemplary source code demonstrating that a Cast-enabled display is programmed with the aforementioned functional capability include:</u></p> <div data-bbox="1182 254 1421 1654" style="background-color: black; height: 150px; margin: 10px 0;"></div>

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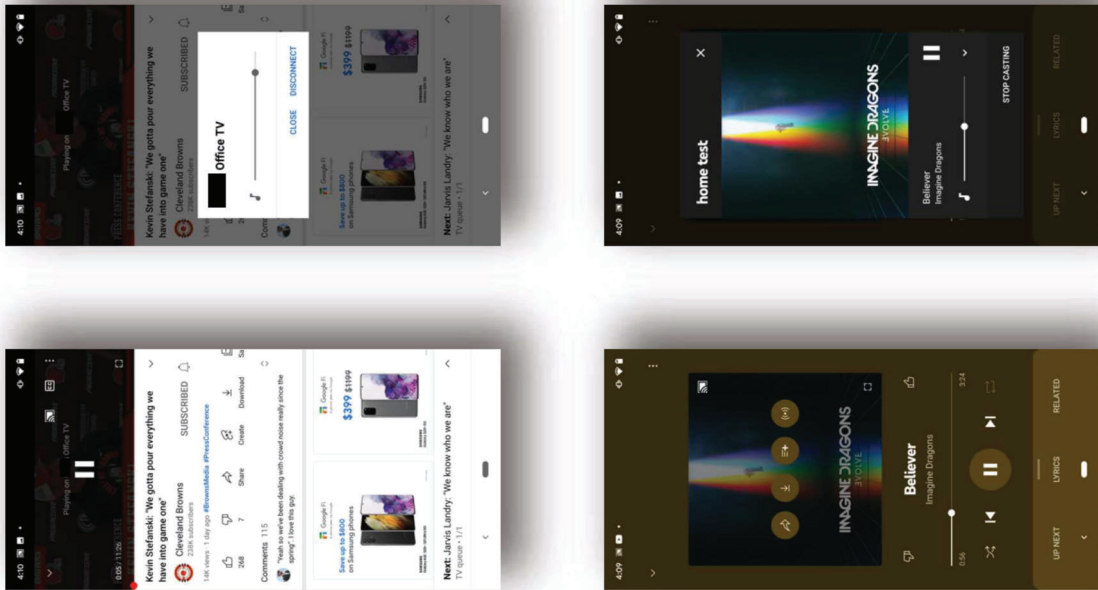
Claim 1	Accused Instrumentalities
<p>[1.9] after detecting the indication, transitioning from i) the first mode in which the computing device is configured for</p>	<p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's non-transitory computer-readable medium that, when executed by the Cast-enabled control device's processor, cause the Cast-enabled control device to, after detecting the indication, transition from (i) the first mode in which the Cast-enabled control device is configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled control device is configured to control the at least one given Cast-enabled media player's playback of the remote playback queue and the Cast-enabled control device is no longer configured for playback of the remote playback queue.</p>



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Claim 1	Accused Instrumentalities
<p>playback of the remote playback queue to ii) a second mode in which the computing device is configured to control the at least one given playback device's playback of the remote playback queue and the computing device is no longer configured for playback of the remote playback queue.</p>	<p>For instance, each Cast-enabled computing device is programmed such that, after detecting the indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled computing device to at least one Cast-enabled media player in the Cast-enabled playback system that is on the same Wi-Fi network as the Cast-enabled computing device (which is the claimed “at least one given playback device”), the Cast-enabled computing device is configured to transition from (i) a first mode in which the Cast-enabled computing device was configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled computing device is configured to control the at least one Cast-enabled media player's playback of the remote playback queue (while the Cast-enabled computing device itself is no longer configured for playback of the remote playback queue). <i>See, e.g.,</i> <a href="https://support.google.com/googlenest/answer/7181830">https://support.google.com/googlenest/answer/7181830</a> [Play media from Chromecast-enabled apps to your speaker or display]; <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers]; <a href="https://support.google.com/chromecast/answer/2995235?hl=en-AU">https://support.google.com/chromecast/answer/2995235?hl=en-AU</a> [Cast from the YouTube app and YouTube.com]; <a href="https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en">https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en</a> [Cast YouTube TV using Chromecast]; <a href="https://support.google.com/youtubekids/answer/6289408?hl=en&amp;co=GENIE.Platform%3DAndroid">https://support.google.com/youtubekids/answer/6289408?hl=en&amp;co=GENIE.Platform%3DAndroid</a> [Watch YouTube Kids videos on your TV]; <a href="https://support.google.com/chromecast/answer/3265953?hl=en">https://support.google.com/chromecast/answer/3265953?hl=en</a> [Chromecast-enabled site vs. casting a tab].</p> <p>Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p>

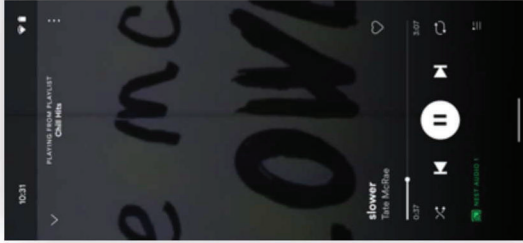
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	<div data-bbox="263 978 756 1220"></div> <div data-bbox="263 625 756 877"></div> <div data-bbox="857 970 1123 1547"></div> <div data-bbox="857 298 1123 873"></div> <p data-bbox="1195 247 1302 1612">Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshots:</p>

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	<div data-bbox="261 972 781 1213"></div> <div data-bbox="261 632 781 873"></div> <p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.,</i> <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers]; <a href="https://www.google.com/chromecast/built-in/apps/">https://www.google.com/chromecast/built-in/apps/</a>.</p> <p>Each Cast-enabled display is also programmed such that, after detecting the indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled display to at least one other Cast-enabled media player in the Cast-enabled playback system that is on the same Wi-Fi network as the Cast-enabled display (which is the claimed “at least one given playback device”), the Cast-enabled display is configured to transition from (i) a first mode in which the Cast-enabled display was configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled display is configured to control the at least one other Cast-enabled media player’s playback of the remote playback queue (while the Cast-enabled display itself is no longer configured for playback of the remote playback queue). <i>See, e.g.,</i> <a href="https://support.google.com/googlenest/answer/9563059?hl=en-IN">https://support.google.com/googlenest/answer/9563059?hl=en-IN</a> [Move media from one cast device to another].</p>



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Claim 1	Accused Instrumentalities
	<p data-bbox="235 220 341 1612">Cast-enabled displays installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos:</p> <div data-bbox="378 932 725 1434"></div> <div data-bbox="378 375 725 856"></div> <p data-bbox="836 210 941 1612">Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div data-bbox="980 665 1271 1144"></div> <p data-bbox="1307 346 1372 1612">Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p>

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Claim 1	Accused Instrumentalities
	<p>Representative examples of other evidence demonstrating this functionality are summarized below.</p> <p><u><i>YouTube, YouTube Music, YouTube TV, &amp; YouTube Kids apps</i></u></p> <p>As noted above, for the first time on February 3, 2022, Google proposed a construction of the term “playback queue” that would require “[a]n ordered list of multimedia items that is selected by the user for playback,” and it appears Google intends to argue that the accused [REDACTED] queue is not a “remote playback queue” because it is not “[a]n ordered list of multimedia items that is selected by the user for playback.” However, even if the Court were to adopt such a construction for “playback queue,” Sonos maintains that the accused [REDACTED] queue would still amount to the claimed “remote playback queue” either literally or at the very least under the DoE for all of the reasons explained above in connection with claim limitation 1.4, and because of this, each Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids apps would still satisfy claim limitation 1.9 either literally or at the very least under DoE.</p> <p>For instance, because a [REDACTED] queue literally amounts to a “remote playback queue” for the reasons explained above, the foregoing functionally literally amounts to the claimed functionality of claim limitation 1.9, which involves “transitioning from i) the first mode in which the computing device is configured for playback of the <i>remote playback queue</i> to ii) a second mode in which the computing device is configured to control the at least one given playback device's playback of the <i>remote playback queue</i> and the computing device is no longer configured for playback of the <i>remote playback queue</i>.”</p> <p>Moreover, to the extent that the Court adopts Google’s construction of “playback queue” and Google then later tries to argue that a the [REDACTED] queue does not literally amount to an “ordered list of multimedia items that is selected by the user for playback” unless every single media item in the [REDACTED] queue is directly selected by the user, the relevant functionality carried out by a Cast-enabled computing device and a Cast-enabled media player with respect to a [REDACTED] queue containing at least one media item that was directly selected by a user and other items that were not directly selected by a user (e.g., media items identified by a YouTube service based on the user’s selection) still satisfies claim limitation 1.9 (as well as the other claim limitations that refer to a “remote playback queue”) under DoE. This is because there is merely an insubstantial difference between (i) a Cast-enabled computing device transitioning between a playback mode and a control mode for a “remote playback queue” in which all of the media items were</p>

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	<p>directly selected by a user and (ii) a Cast-enabled computing device transitioning between a playback mode and a control mode for a “remote playback queue” in which only the initial media item was directly selected by the user while the other media item was identified based on the user’s selection of the initial media item. Indeed, a Cast-enabled computing device performs the same function (e.g., transitioning from a playback mode for the [REDACTED] queue to a control mode for a Cast-enabled media player’s playback of the [REDACTED] queue), in the same way (e.g., by updating the operating mode of the Cast-enabled computing device), to achieve the same result (e.g., becoming configured to control the Cast-enabled media player’s playback of the [REDACTED] queue) <b>regardless</b> of whether the media items in the [REDACTED] queue were all directly selected by a user or only the initial media item in the [REDACTED] queue was directly selected by the user and the rest were identified based on the user’s selection.</p> <p>In addition to the evidence cited above for limitations 1.7-1.8 and the YouTube, YouTube Music, and YouTube TV apps screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>Representative excerpts of Google’s YouTube app source code<sup>37</sup> related to the aforementioned functionality include:</p> <p>[REDACTED]</p>






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	<p>[REDACTED]</p> <p>Representative excerpts of Google's YouTube Kids app source code<sup>40</sup> related to the aforementioned functionality include:</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. See Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p><u><i>Spotify app</i></u></p> <p>The evidence cited above for limitations 1.7-1.8 and the Spotify app screenshots shown above demonstrates that each Cast-enabled control device installed with the Spotify app is programmed with this functionality.</p>

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Claim 1	Accused Instrumentalities
	<p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><b><u>Cast-Enabled Displays</u></b></p> <p>In addition to the evidence cited above for limitations 1.7-1.8 and the Cast-enabled display screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <ul style="list-style-type: none"> <li>• <a href="https://developers.google.com/cast/docs/web_receiver/core_features">https://developers.google.com/cast/docs/web_receiver/core_features</a> (“Stream transfer[.] Preserving session state is the basis of stream transfer, a CAF feature where users can move existing audio and video streams across devices using ... smart displays. Media stops playing on one device (the source) and continues on another (the destination).... The event flow for stream transfer is:             <ol style="list-style-type: none"> <li>1. On the source device:                 <ol style="list-style-type: none"> <li>a. Media stops playing.</li> <li>b. The Web Receiver application receives a command to save the current media state.</li> <li>c. The Web Receiver application is shut down.</li> </ol> </li> <li>2. On the destination device:                 <ol style="list-style-type: none"> <li>a. The Web Receiver application is loaded.</li> <li>b. The Web Receiver application receives a command to restore the saved media state.</li> <li>c. Media resumes playing.”</li> </ol> </li> </ol> </li> </ul> <p><u>Exemplary source code demonstrating that a Cast-enabled display is programmed with the aforementioned functional capability include:</u></p> <div style="background-color: black; height: 150px; width: 100%;"></div>

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<p><b>Claim 1</b></p>	 <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>
<p><b>Claim 2</b></p> <p>[2.0] The computing device of claim 1, [2.1] wherein the instruction comprises an instruction for the cloud-based computing system associated with the media service to provide the data identifying the next one or more media items to the given playback device for use in retrieving the at least one media item from the cloud-based computing system associated with the cloud-based media service.</p>	<p style="text-align: center;"><b>Accused Instrumentalities</b></p> <p>As described above, each Cast-enabled control device is a "computing device" as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that the instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device comprises an instruction for the cloud-based computing system associated with the cloud-based media service to provide the data identifying the next one or more media items to the given Cast-enabled media player for use in retrieving the at least one media item from the cloud-based computing system associated with the cloud-based media service.</p> <p>For instance, a Cast-enabled control device installed with at least some of the Cast-enabled apps discussed above is programmed such that the instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device comprises an instruction for one or more cloud servers associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc. or a third-party service such as Spotify, etc.) that are remote from the Cast-enabled computing device and accessible over the Internet, which may be operated by Google or a third-party service provider, to provide data identifying the next one or more media items to the given Cast-enabled media player for use in retrieving the at least one media item from the one or more cloud servers associated with the cloud-based media service. <i>See, e.g.,</i> <a href="https://support.google.com/googlenest/answer/7181830">https://support.google.com/googlenest/answer/7181830</a> [Play media from Chromecast-enabled apps to your speaker or display]; <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers]; <a href="https://support.google.com/chromecast/answer/2995235?hl=en-AU">https://support.google.com/chromecast/answer/2995235?hl=en-AU</a> [Cast from the YouTube app and YouTube.com]; <a href="https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en">https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en</a> [Cast YouTube TV using Chromecast]; <a href="https://support.google.com/youtubekids/answer/6289408?hl=en&amp;co=GENIE.Platform%3DAndroid">https://support.google.com/youtubekids/answer/6289408?hl=en&amp;co=GENIE.Platform%3DAndroid</a> [Watch</p>

**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033**  
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Claim 2	Accused Instrumentalities
	<p data-bbox="235 210 381 1606">YouTube Kids videos on your TV]; <a href="https://support.google.com/googlenest/answer/9563059?hl=en-IN">https://support.google.com/googlenest/answer/9563059?hl=en-IN</a> [Move media from one cast device to another]; <a href="https://developers.google.com/cast/docs/web_receiver/queueing">https://developers.google.com/cast/docs/web_receiver/queueing</a>; <a href="https://developers.google.com/cast/docs/ios_sender/queueing">https://developers.google.com/cast/docs/ios_sender/queueing</a>; <a href="https://developers.google.com/cast/docs/android_sender/queueing">https://developers.google.com/cast/docs/android_sender/queueing</a>.</p> <p data-bbox="414 210 633 1606">For example, as explained above, a Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed such that, after receiving user input indicating a selection of at least one particular Cast-enabled media player in the Cast-enabled playback system that is to take over playback responsibility, the Cast-enabled computing device performs a variety of functions to transfer playback responsibility from the Cast-enabled computing device to the particular Cast-enabled media player. <i>See</i> claim limitation 1.7. [REDACTED]</p> <p data-bbox="633 210 958 1606">[REDACTED]</p> <p data-bbox="958 210 998 1606">[REDACTED]</p> <p data-bbox="998 210 1039 1606">[REDACTED]</p> <p data-bbox="1039 210 1079 1606">[REDACTED]</p> <p data-bbox="1079 210 1120 1606">[REDACTED]</p> <p data-bbox="1120 210 1161 1606">[REDACTED]</p> <p data-bbox="1161 210 1201 1606">[REDACTED]</p> <p data-bbox="1201 210 1242 1606">[REDACTED]</p> <p data-bbox="1242 210 1282 1606">[REDACTED]</p> <p data-bbox="1282 210 1323 1606">[REDACTED]</p> <p data-bbox="1323 210 1364 1606">[REDACTED]</p> <p data-bbox="1364 210 1404 1606">[REDACTED]</p> <p data-bbox="1404 210 1445 1606">[REDACTED]</p> <p data-bbox="1445 210 1485 1606">[REDACTED]</p> <p data-bbox="1485 210 1526 1606">[REDACTED]</p> <p data-bbox="1526 210 1567 1606">[REDACTED]</p> <p data-bbox="1567 210 1607 1606">[REDACTED]</p> <p data-bbox="966 609 998 1417">The aforementioned functionality satisfies claim limitation 2.1.</p> <p data-bbox="1039 210 1144 1606">Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>

Claim 4	Accused Instrumentalities
<p data-bbox="1226 1659 1396 1890"><b>[4.0]</b> The computing device of claim 1, <b>[4.1]</b> wherein the representation of</p>	<p data-bbox="1226 210 1396 1606">As described above, each Cast-enabled control device is a "computing device," as recited in claim 1. Moreover, each Cast-enabled control device is programmed with the capability to perform the aforementioned functions where (i) the representation of the one or more Cast-enabled media players comprises at least one selectable indicator for a group of Cast-enabled media players that includes the given Cast-enabled media player and one or more other Cast-enabled media players that are to be configured for</p>

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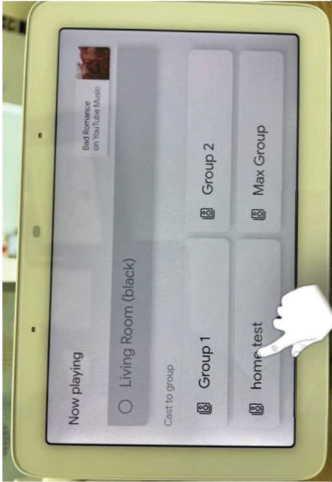
Claim 4	Accused Instrumentalities
<p>the one or more playback devices comprises at least one selectable indicator for a group of playback devices that includes the given playback device and one or more other playback devices that are to be configured for synchronous playback of the remote playback queue, and wherein the user input indicating the selection of at least one given playback device from the one or more playback devices comprises user input indicating a selection of the “speaker group.” See, e.g., <a href="https://support.google.com/googlecast/answer/7174267?hl=en-GB&amp;co=GENIE.Platform=Android">https://support.google.com/googlecast/answer/7174267?hl=en-GB&amp;co=GENIE.Platform=Android</a> (“Group any combination of Google Nest or Google Home speakers and displays and Chromecast devices together for synchronous music throughout the home.”); <a href="https://support.google.com/googlecast/answer/2995235?hl=en-AU">https://support.google.com/googlecast/answer/2995235?hl=en-AU</a> [Cast from the YouTube app and media from Chromecast-enabled apps to your speaker or display]; <a href="https://support.google.com/chromecast/answer/3265953?hl=en">https://support.google.com/chromecast/answer/3265953?hl=en</a> [Chromecast-enabled YouTube.com]; <a href="https://support.google.com/googlecast/answer/9563059?hl=en-IN">https://support.google.com/googlecast/answer/9563059?hl=en-IN</a> [Move media from one cast device to another]; <a href="https://support.google.com/chromecast/answer/3265953?hl=en">https://support.google.com/chromecast/answer/3265953?hl=en</a> [Chromecast-enabled site vs. casting a tab].</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube Music app, as illustrated by the following screenshots:</p>	<p>synchronous playback of the remote playback queue and (ii) the user input indicating the selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players comprises user input indicating a selection of the group of Cast-enabled media players.</p> <p>For instance, each Cast-enabled control device is programmed with the capability to perform the aforementioned functions where (i) the representation of the one or more Cast-enabled media players comprises a selectable indicator for a “speaker group” that includes the given Cast-enabled media player and one or more other Cast-enabled media players that are to be configured for synchronous playback of the remote playback queue when the “speaker group” is launched, which amounts to the claimed “group of remote playback devices . . . that are to be configured for synchronous playback of the remote playback queue”, and (ii) the user input indicating the selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players comprises user input indicating a selection of the “speaker group.” See, e.g., <a href="https://support.google.com/googlecast/answer/7174267?hl=en-GB&amp;co=GENIE.Platform=Android">https://support.google.com/googlecast/answer/7174267?hl=en-GB&amp;co=GENIE.Platform=Android</a> (“Group any combination of Google Nest or Google Home speakers and displays and Chromecast devices together for synchronous music throughout the home.”); <a href="https://support.google.com/googlecast/answer/2995235?hl=en-AU">https://support.google.com/googlecast/answer/2995235?hl=en-AU</a> [Cast from the YouTube app and media from Chromecast-enabled apps to your speaker or display]; <a href="https://support.google.com/chromecast/answer/3265953?hl=en">https://support.google.com/chromecast/answer/3265953?hl=en</a> [Chromecast-enabled YouTube.com]; <a href="https://support.google.com/googlecast/answer/9563059?hl=en-IN">https://support.google.com/googlecast/answer/9563059?hl=en-IN</a> [Move media from one cast device to another]; <a href="https://support.google.com/chromecast/answer/3265953?hl=en">https://support.google.com/chromecast/answer/3265953?hl=en</a> [Chromecast-enabled site vs. casting a tab].</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube Music app, as illustrated by the following screenshots:</p>

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Claim 4	Accused Instrumentalities
	<div data-bbox="261 779 855 1066"></div> <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p>



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Claim 4	Accused Instrumentalities
	<div data-bbox="263 806 763 1037"></div> <p data-bbox="834 210 938 1610">Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. See, e.g., <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers]; <a href="https://www.google.com/chromecast/built-in/apps/">https://www.google.com/chromecast/built-in/apps/</a>.</p> <p data-bbox="980 210 1052 1610">Cast-enabled displays installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube Music app, as illustrated by the following photos:</p> <div data-bbox="1089 663 1419 1142"></div>

**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033**  
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Claim 4	Accused Instrumentalities
	<p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p>  <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>

Claim 7	Accused Instrumentalities
<p>[7.0] The computing device of claim 1, wherein:</p> <p>[7.1] operating in the first mode further involves providing a control interface comprising one or more selectable</p>	<p>As described above, each Cast-enabled control device is a "computing device," as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that operating in the first mode further involves providing a control interface comprising one or more selectable control icons that are configured to control playback of the remote playback queue by the Cast-enabled control device.</p> <p>For instance, each Cast-enabled control device is programmed such that operating in a mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud server associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc. or a third-party service such as Spotify, etc.) that is remote from the Cast-enabled computing device and accessible over the Internet involves providing a control interface comprising</p>



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Claim 7	Accused Instrumentalities
control icons that are configured to control playback of the remote playback queue by the computing device;	<p>one or more selectable control icons (e.g., a Pause icon, a Skip icon, etc.) that are configured to control playback of the remote playback queue by the Cast-enabled control device. <i>See, e.g.,</i> <a href="https://support.google.com/googlenest/answer/7181830">https://support.google.com/googlenest/answer/7181830</a> [Play media from Chromecast-enabled apps to your speaker or display]; <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers]; <a href="https://support.google.com/chromecast/answer/2995235?hl=en-AU">https://support.google.com/chromecast/answer/2995235?hl=en-AU</a> [Cast from the YouTube app and YouTube.com]; <a href="https://support.google.com/googlenest/answer/9165738?hl=en">https://support.google.com/googlenest/answer/9165738?hl=en</a> [Google Nest display with YouTube built-in]; <a href="https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music">https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music</a>; <a href="https://store.google.com/us/product/google_nest_hub_max?hl=en-US">https://store.google.com/us/product/google_nest_hub_max?hl=en-US</a>; <i>see also</i> claim limitation 1.4 (illustrating examples of this functionality from a Cast-enabled computing device and a Cast-enabled display that are each running at least the YouTube, YouTube Music, YouTube TV, and/or Spotify apps).</p> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 15, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>
<p>[7.2] transitioning from the first mode to the second mode further involves modifying the control interface such that the one or more selectable control icons are configured to control playback of the remote playback queue by the at least one playback device instead of the computing device.</p>	<p>As described above, each Cast-enabled control device is a “computing device,” as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that transitioning from the first mode to the second mode further involves modifying the control interface such that the one or more selectable control icons (e.g., the Pause icon, the Skip icon, etc.) are configured to control playback of the remote playback queue by the at least one Cast-enabled media player instead of the Cast-enabled control device.</p> <p>For instance, each Cast-enabled control device is programmed such that transitioning from the first mode in which the Cast-enabled control device was configured for playback of the remote playback queue to the second mode in which the Cast-enabled control device is configured to control the at least one Cast-enabled media player’s playback of the remote playback queue (while the Cast-enabled control device itself is no longer configured for playback of the remote playback queue) further involves modifying the control interface such that the one or more selectable control icons (e.g., a Pause icon, a Skip icon, etc.) are configured to control playback of the remote playback queue by the at least one Cast-enabled media player instead of the Cast-enabled control device. <i>See, e.g.,</i> <a href="https://support.google.com/googlenest/answer/7181830">https://support.google.com/googlenest/answer/7181830</a> [Play media from Chromecast-enabled apps to your speaker or display] (“You can even use your mobile device or tablet as a remote and control everything from playback to volume.”); <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to</p>

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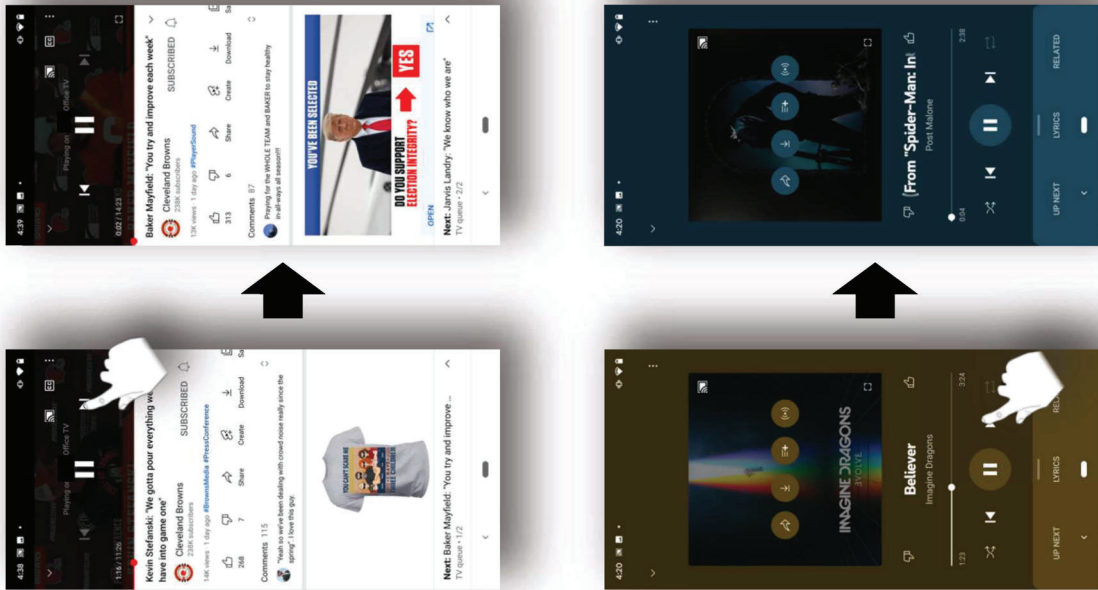
<b>Claim 7</b>	<b>Accused Instrumentalities</b>
	<p>speakers]; <a href="https://support.google.com/chromecast/answer/2995235?hl=en-AU">https://support.google.com/chromecast/answer/2995235?hl=en-AU</a> [Cast from the YouTube app and YouTube.com] (“To play, pause or navigate with the scrollbar, use your device as you normally would to control playback.”); <a href="https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en">https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en</a> [Cast YouTube TV using Chromecast]; <a href="https://support.google.com/googlenest/answer/9563059?hl=en-IN">https://support.google.com/googlenest/answer/9563059?hl=en-IN</a> [Move media from one cast device to another]; <a href="https://support.google.com/chromecast/answer/3265953?hl=en">https://support.google.com/chromecast/answer/3265953?hl=en</a> [Chromecast-enabled site vs. casting a tab]; <i>see also</i> claim limitation 1.9 (illustrating examples of this functionality from a Cast-enabled computing device and a Cast-enabled display that are each running at least the YouTube, YouTube Music, YouTube TV, and/or Spotify apps).</p> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>

<b>Claim 8</b>	<b>Accused Instrumentalities</b>
<p><b>[8.0]</b> The computing device of claim 7, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising: <b>[8.1]</b></p>	<p>As described above, each Cast-enabled control device is a “computing device,” as recited in claim 7. Moreover, each Cast-enabled control device further comprises program instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to, after transitioning to the second mode, receive user input indicating a selection of a given control icon of the one or more selectable control icons, wherein the given control icon corresponds to a given transport control operation, and based on receiving the user input indicating the selection of the given control icon, cause the corresponding transport control operation to be executed by the given Cast-enabled media player.</p> <p>For instance, each Cast-enabled control device is programmed with the capability to, after transitioning to the second mode in which the Cast-enabled control device is configured to control the at least one Cast-enabled media player’s playback of the remote playback queue (while the Cast-enabled control device itself is no longer configured for playback of the remote playback queue), receive user input indicating a selection of a given control icon (e.g., a Play/Pause icon, a Skip icon, etc.) of the one or more selectable control icons, where the given control icon corresponds to a given transport control operation (e.g., play/pause, skip, etc.), and based on receiving the user input indicating the selection of the given control icon, cause the corresponding transport control operation (e.g., play/pause, skip, etc.) to be executed by the given Cast-</p>

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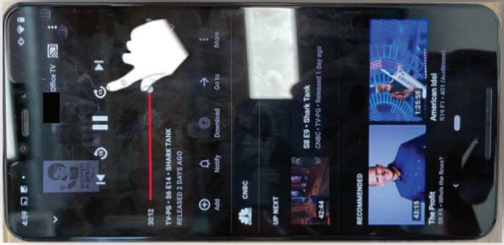


Claim 8	Accused Instrumentalities
<p>after transitioning to the second mode, receiving user input indicating a selection of a given control icon of the one or more selectable control icons, wherein the given control icon corresponds to a given transport control operation; and [8.2] based on receiving the user input indicating the selection of the given control icon, causing the corresponding transport control operation to be executed by the given playback device.</p>	<p>enabled media player. <i>See, e.g.,</i> <a href="https://support.google.com/googleassistant/answer/7181830">https://support.google.com/googleassistant/answer/7181830</a> [Play media from Chromecast-enabled apps to your speaker or display] (“You can even use your mobile device or tablet as a remote and control everything from playback to volume.”); <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers]; <a href="https://support.google.com/chromecast/answer/2995235?hl=en-AU">https://support.google.com/chromecast/answer/2995235?hl=en-AU</a> [Cast from the YouTube app and YouTube.com] (“To play, pause or navigate with the scrollbar, use your device as you normally would to control playback.”); <a href="https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en">https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en</a> [Cast YouTube TV using Chromecast]; <a href="https://support.google.com/googleassistant/answer/9563059?hl=en-IN">https://support.google.com/googleassistant/answer/9563059?hl=en-IN</a> [Move media from one cast device to another]; <a href="https://support.google.com/chromecast/answer/3265953?hl=en">https://support.google.com/chromecast/answer/3265953?hl=en</a> [Chromecast-enabled site vs. casting a tab]; <a href="https://developer.android.com/reference/android/media/session/MediaController.TransportControls">https://developer.android.com/reference/android/media/session/MediaController.TransportControls</a>.</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p>

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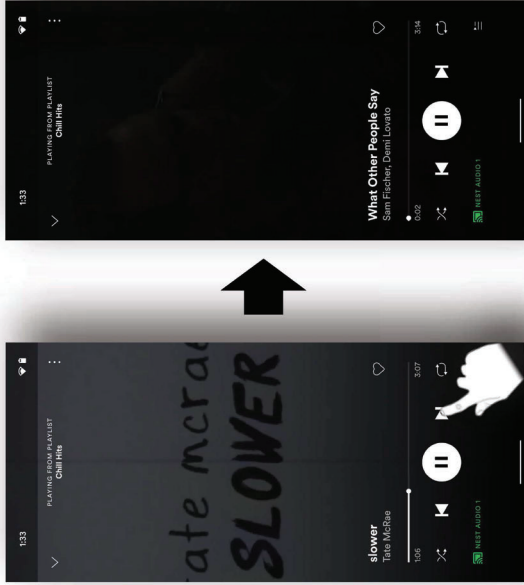
Claim 8	Accused Instrumentalities
	



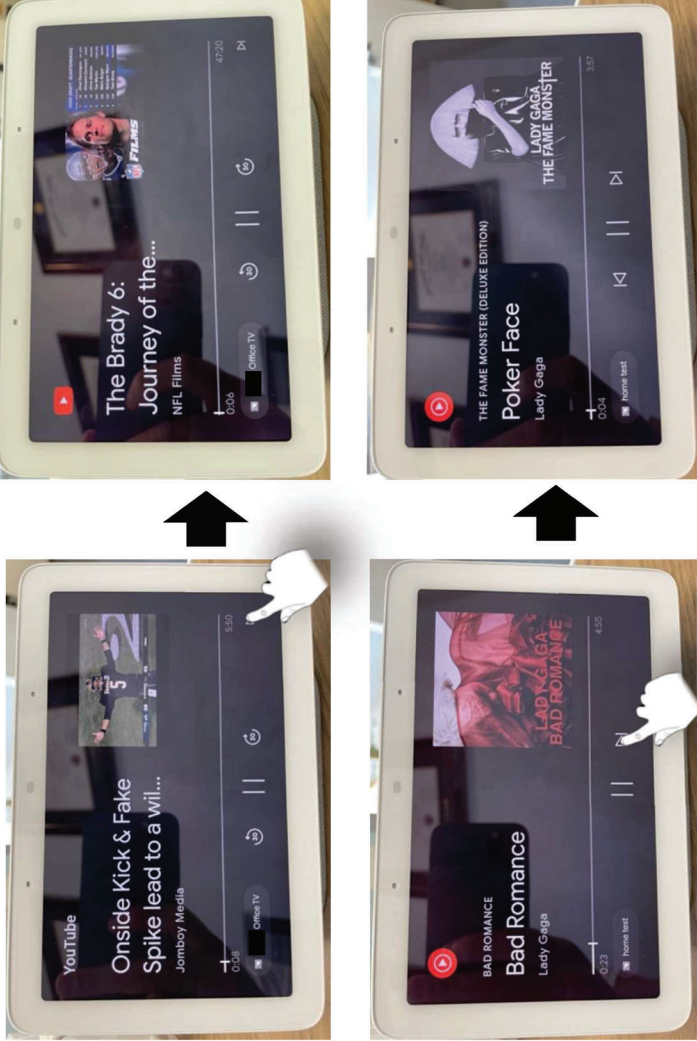
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Claim 8	Accused Instrumentalities
	<div data-bbox="264 627 764 1215"></div> <div data-bbox="500 894 586 953"></div> <div data-bbox="264 630 764 873"></div> <div data-bbox="862 972 1130 1547"></div> <div data-bbox="954 894 1040 953"></div> <div data-bbox="862 296 1130 873"></div> <p data-bbox="1203 247 1312 1612">Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshots:</p>

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Claim 8	Accused Instrumentalities
	<div data-bbox="261 632 781 1213"></div> <p data-bbox="852 210 959 1610">Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.</i>, <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers]; <a href="https://www.google.com/chromecast/built-in/apps/">https://www.google.com/chromecast/built-in/apps/</a>.</p> <p data-bbox="998 210 1138 1610">Cast-enabled displays installed with various of Google’s own Cast-enabled apps, including but not limited to the YouTube and YouTube Music apps, as well as various third-party Cast-enabled apps, including but not limited to the Spotify app, are programmed to perform this functionality, as illustrated by the following exemplary screenshots:</p>

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Claim 8	Accused Instrumentalities
	<div data-bbox="240 386 933 1421"></div> <p data-bbox="971 344 1003 1610">Representative examples of other evidence demonstrating this functionality are summarized below.</p> <p data-bbox="1044 772 1076 1610"><u>YouTube, YouTube Music, YouTube TV, &amp; YouTube Kids apps</u></p> <p data-bbox="1117 233 1182 1610">Representative excerpts of Google's YouTube app source code<sup>41</sup> related to the aforementioned functionality include:</p>

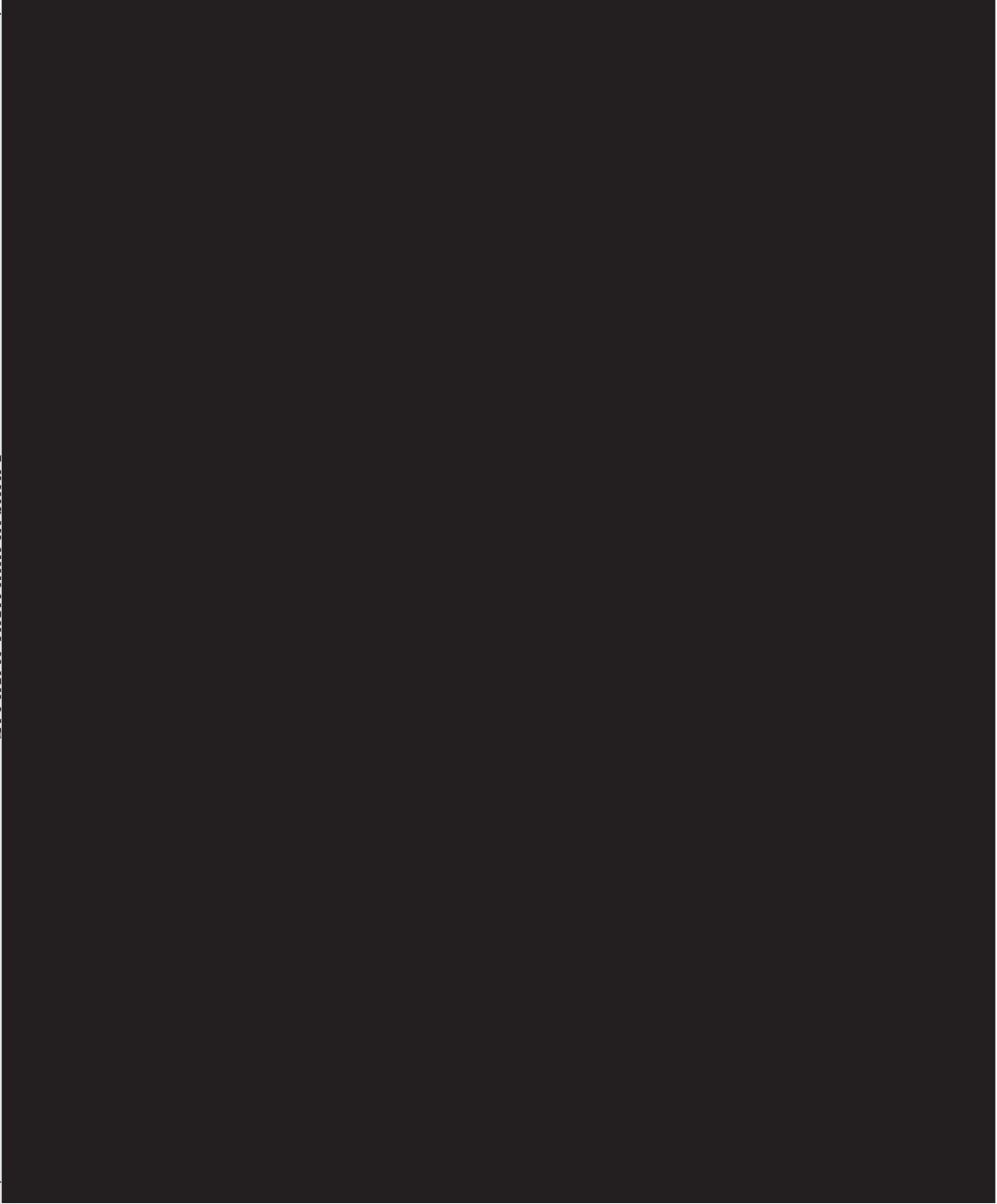
[REDACTED]

[REDACTED]

**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
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**Claim 8**

**Accused Instrumentalities**





**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY**

Claim 8	Accused Instrumentalities
	

**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
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**Claim 8**

**Accused Instrumentalities**




**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
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**Claim 8**

**Accused Instrumentalities**



Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 8	Accused Instrumentalities
	


**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
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Claim 8	Accused Instrumentalities

**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
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Claim 8	Accused Instrumentalities

**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033**  
**HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY**

Claim 8	Accused Instrumentalities
	


**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033**  
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Claim 8	Accused Instrumentalities




Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
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Claim 8	Accused Instrumentalities
	<p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. See Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u><i>Cast-Enabled Displays</i></u></p> <p>Representative excerpts of Google’s Cast-enabled display source code<sup>45</sup> related to the aforementioned functionality include:</p>

■ [REDACTED]







**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033**  
**HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY**

Claim 8	Accused Instrumentalities
	Representative excerpts of Google's Cast-enabled media player source code <sup>46</sup> related to the aforementioned functionality include:
	
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.

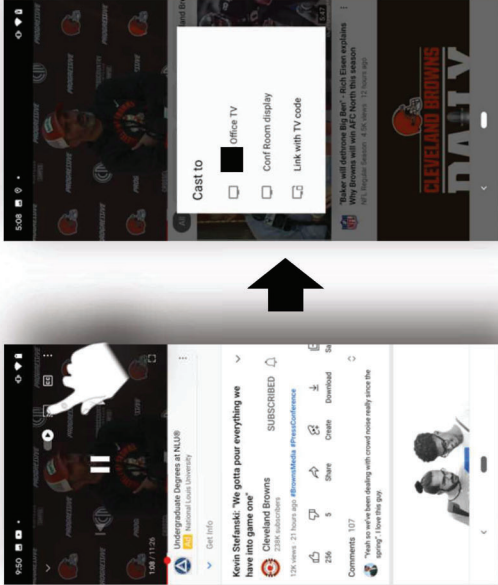
Claim 9	Accused Instrumentalities
[9.0] The computing device of claim 8, [9.1] wherein the transport control operation comprises one of a play	As described above, each Cast-enabled control device is a "computing device," as recited in claim 8. Moreover, each Cast-enabled control device is programmed with the capability to perform the aforementioned functions where the transport control operation comprises one of a play operation, a pause operation, a skip forward operation, or a skip back operation. <i>See</i> claim limitations 8.1-8.2.



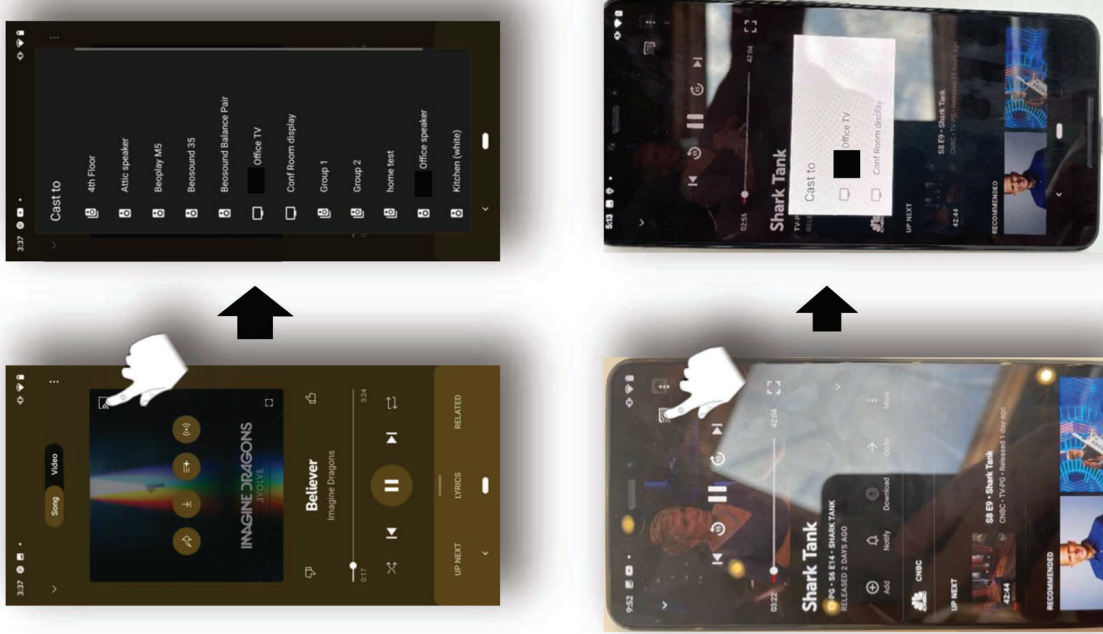
**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033**  
**HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY**

Claim 9	Accused Instrumentalities
operation, a pause operation, a skip forward operation, or a skip back operation.	
Claim 11	Accused Instrumentalities
<p>[11.0] The computing device of claim 1, wherein displaying the representation of the one or more playback devices comprises: [11.1] displaying the representation of the one or more playback devices in response to receiving a selection of a displayed icon indicating that playback responsibility for the remote playback queue can be transferred.</p>	<p>As described above, each Cast-enabled control device is a “computing device,” as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that displaying the representation of the one or more Cast-enabled media players comprises displaying the representation of the one or more Cast-enabled media players in response to receiving a selection of a displayed icon indicating that playback responsibility for the remote playback queue can be transferred.</p> <p>For instance, each Cast-enabled control device is programmed such that displaying a list of available devices for transferring playback that includes one or more Cast-enabled media players in a Cast-enabled playback system comprises displaying the list of available devices for transferring playback that includes one or more Cast-enabled media players in the Cast-enabled playback system in response to receiving a selection of a displayed icon (e.g., a “Cast button”) indicating that playback responsibility for the remote playback queue can be transferred. See, e.g., <a href="https://support.google.com/googlenest/answer/7181830">https://support.google.com/googlenest/answer/7181830</a> [Play media from Chromecast-enabled apps to your speaker or display] (“Tap the Cast button  . . . Tap the speaker or display for which you’d like to cast.”); <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers] (“2. In the top right corner, tap the Cast button . 3. Choose your speaker.”); <a href="https://support.google.com/chromecast/answer/2995235?hl=en-AU">https://support.google.com/chromecast/answer/2995235?hl=en-AU</a> [Cast from the YouTube app and YouTube.com] (“Tap the Cast button  . . . Tap the Chromecast device to which you want to cast.”); <a href="https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en">https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en</a> [Cast YouTube TV using Chromecast] (“Tap Cast . This is found at the top of the app Home screen.  Choose the device you want to cast to.”); <a href="https://support.google.com/youtubekids/answer/6289408?hl=en&amp;co=GENIE.Platform%3DAndroid">https://support.google.com/youtubekids/answer/6289408?hl=en&amp;co=GENIE.Platform%3DAndroid</a> [Watch YouTube Kids videos on your TV]; <a href="https://support.google.com/googlenest/answer/9563059?hl=en-IN">https://support.google.com/googlenest/answer/9563059?hl=en-IN</a> [Move media from one cast device to another] (“At the bottom-left corner of the screen, tap Devices  to see the list</p>

**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
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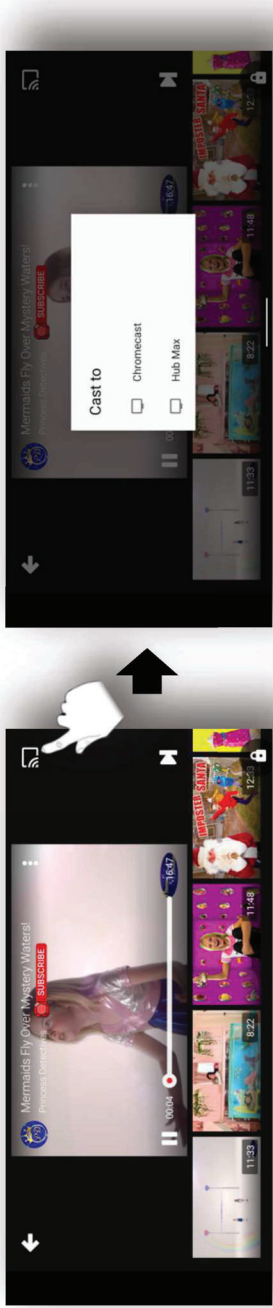
Claim 11	Accused Instrumentalities
	<p>of available devices and speaker groups. . . . Select the device for which you want to move your media.”); <a href="https://support.google.com/chromecast/answer/3265953?hl=en">https://support.google.com/chromecast/answer/3265953?hl=en</a> [Chromecast-enabled site vs. casting a tab].</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids, as illustrated by the following screenshots:</p> 

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
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Claim 11	Accused Instrumentalities
	

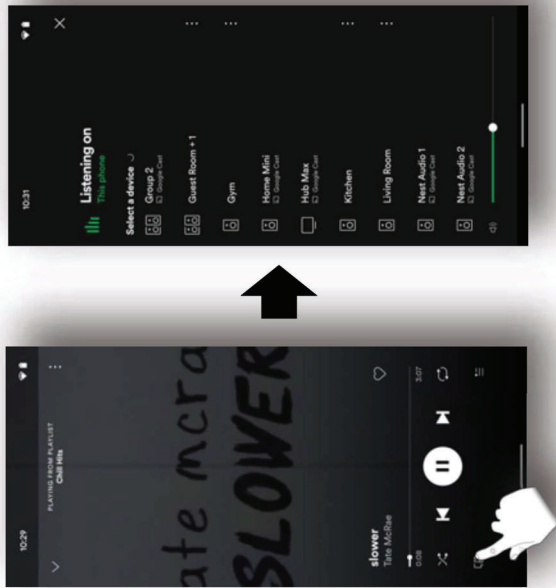


Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
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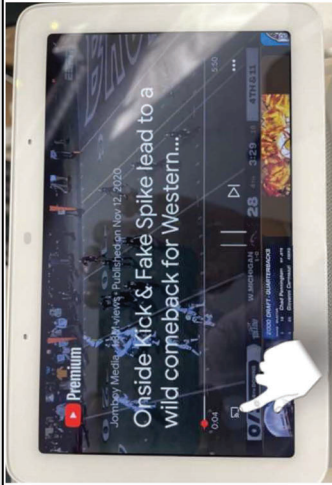
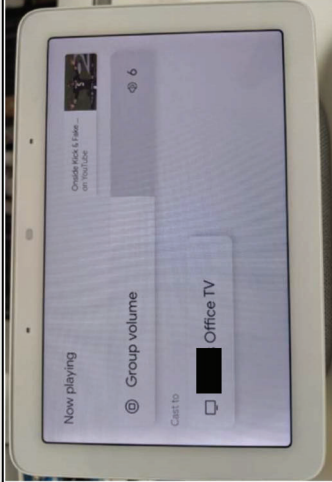
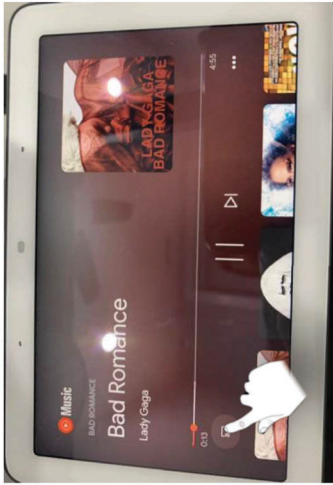
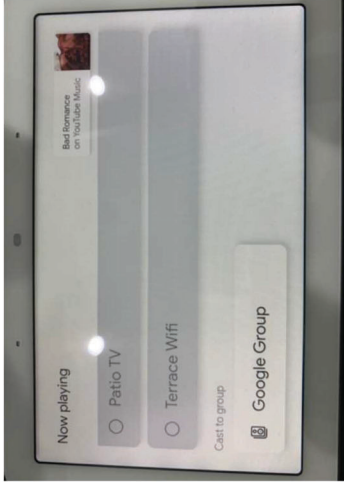
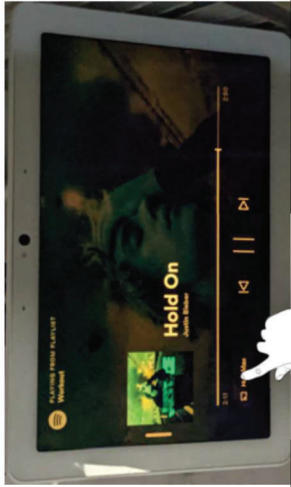

Claim 11	Accused Instrumentalities
	<div data-bbox="261 247 531 1547"></div> <div data-bbox="639 247 675 1610"><p>See also, e.g., [REDACTED]</p></div> <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshots:</p>



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Claim 11	Accused Instrumentalities
	<div data-bbox="261 627 813 1211"></div> <p data-bbox="857 189 963 1623">Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. See, e.g., <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers]; <a href="https://www.google.com/chromecast/built-in/apps/">https://www.google.com/chromecast/built-in/apps/</a>.</p> <p data-bbox="1003 189 1110 1623">Cast-enabled displays installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos:</p>

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Claim 11	Accused Instrumentalities
	<div data-bbox="228 949 558 1430"></div> <div data-bbox="391 877 453 926">➔</div> <div data-bbox="228 378 558 856"></div> <div data-bbox="605 949 935 1430"></div> <div data-bbox="743 877 805 926">➔</div> <div data-bbox="594 378 935 856"></div> <p data-bbox="972 189 1081 1623">Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photos:</p> <div data-bbox="1117 926 1406 1409"></div> <div data-bbox="1230 863 1292 911">➔</div> <div data-bbox="1117 399 1406 856"></div>

**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033**  
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Claim 11	Accused Instrumentalities
	<p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>
Claim 12	Accused Instrumentalities
<p>[12.0] A non-transitory computer-readable medium having stored thereon program instructions that, when executed by at least one processor, cause a computing device to perform functions comprising:</p>	<p>Google’s “Cast” technology enables an “Android, iOS, or Web app to direct its streaming video and audio to a TV or sound system,” where the app “becomes the remote control to play, pause, seek, rewind, stop, and otherwise control the media.” <a href="https://developers.google.com/cast">https://developers.google.com/cast</a>. In Google’s “Cast” framework, there are two core categories of devices: (1) “sender” devices, which are computing devices installed with a Cast-enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled site URL<sup>47</sup> (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com, and (2) “receiver” devices, which are Cast-enabled media players such as an audio or video playback device. <i>See, e.g.,</i> <a href="https://developers.google.com/cast/docs/developers">https://developers.google.com/cast/docs/developers</a>; <a href="https://developers.google.com/cast/glossary">https://developers.google.com/cast/glossary</a>; <a href="https://developers.google.com/cast/docs/ux_guidelines">https://developers.google.com/cast/docs/ux_guidelines</a>.</p> <p>There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to transfer playback of streaming media content from the user’s smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app. This includes Google’s own Cast-enabled apps, such as the YouTube app, YouTube Music app, the YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps, such as the Spotify app. <i>See, e.g.,</i> <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a>; <a href="https://www.google.com/chromecast/built-in/apps/">https://www.google.com/chromecast/built-in/apps/</a>. These Cast-enabled apps can be installed and run on any smartphone, tablet, or computer device that supports Android, iOS, Chrome, or browser-based apps, including Google’s own “Pixel” smartphone, tablet, and computer devices (<i>e.g.,</i> the Pixel, Pixel XL, Pixel 2, Pixel 2 XL, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, Pixel 4, Pixel 4 XL, Pixel 4a, Pixel 4a (5G), Pixel 5, Pixel 5a (5G), Pixel 6 phones, the Pixel Slate tablet, and the Pixelbook and Pixelbook Go laptops) as well as</p>

<sup>47</sup> *See, e.g.,* <https://support.google.com/chromecast/answer/3265953?hl=en>.

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Claim 12	Accused Instrumentalities
	<p>many third-party smartphone, tablet, or computer device. <i>See, e.g.,</i> <a href="https://store.google.com/us/magazine/compare/pixel">https://store.google.com/us/magazine/compare/pixel</a>; <a href="https://store.google.com/us/product/google/pixelbook_specs">https://store.google.com/us/product/google/pixelbook_specs</a>; <a href="https://store.google.com/us/product/pixel_slate_specs">https://store.google.com/us/product/pixel_slate_specs</a>. For purposes of this chart, any smartphone, tablet, or computer device installed with a Cast-enabled Android, iOS, Chrome, or browser-based app (e.g., accessed via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app will be referred to as a “Cast-enabled computing device.”</p> <p>As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See</i> Appx. 1. Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices that comprises a tangible, non-transitory computer-readable storage medium that, when installed with a Cast-enabled app, includes executable instructions that when executed by a processor causes the device to carry out the recited functions, but notes that this tangible, non-transitory computer-readable storage medium has become ubiquitous among all smartphone, tablet, and computer devices. Each possible third-party smartphone, tablet, and computer device listed in Appendix 1 contains this aspect and thus meets this element.</p> <p>There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google’s own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.,</i> <a href="https://store.google.com/us/product/google_home_max?hl=en-US">https://store.google.com/us/product/google_home_max?hl=en-US</a>; <a href="https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US">https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US</a>; <a href="https://www.google.com/chromecast/built-in/audio/">https://www.google.com/chromecast/built-in/audio/</a>.</p>



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Claim 12	Accused Instrumentalities
	<p>Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-enabled media players to additionally function as a control device for other Cast-enabled media players. This sub-category of Cast-enabled media players, which will be referred to herein as “Cast-enabled displays,” includes Google’s Home Hub, Nest Hub, and Nest Hub Max media players. <i>See, e.g.,</i> <a href="https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music;https://store.google.com/us/product/google_nest_hub_max?hl=en-US;https://support.google.com/googlenest/answer/9165738?hl=en">https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music;</a> <a href="https://store.google.com/us/product/google_nest_hub_max?hl=en-US;https://support.google.com/googlenest/answer/9165738?hl=en">https://store.google.com/us/product/google_nest_hub_max?hl=en-US;</a> <a href="https://support.google.com/googlenest/answer/9165738?hl=en">https://support.google.com/googlenest/answer/9165738?hl=en</a>. Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps) that allows a user to transfer playback of streaming media content from the Cast-enabled display to another Cast-enabled media player and then control that other Cast-enabled media player’s playback using the Cast-enabled display’s user interface. For purposes of this chart, Cast-enabled computing devices and Cast-enabled displays may be referred to collectively as “Cast-enabled control devices.”</p> <p>Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google (sometimes referred to as Google Cloud Platform or “GCP” for short) that facilitates the aforementioned Cast functionality for transferring playback of streaming media content from a Cast-enabled control device to a Cast-enabled media player and/or controlling the Cast-enabled media player’s playback.</p> <p>As described in further detail below, each Cast-enabled control device is a “computing device” that comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by the Cast-enabled control device’s processor, cause that Cast-enabled control device to perform the functions recited in claim 12. Further, each server that hosts at least one of the aforementioned Cast-enabled apps for download onto Cast-enabled computing devices, which is referred to herein as a “Cast-enabled app download server,” comprises a tangible, non-transitory computer-readable storage medium having program instructions stored thereon that, when executed by a Cast-enabled control device’s processor, cause that Cast-enabled control device to perform the functions recited in claim 12. Further yet, because each Cast-enabled media player is a data network device (<i>i.e.</i>, a device that is configured to connect to and communicate over a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other) and is configured to process and output audio, each Cast-enabled media player comprises a “playback device” as recited in claim 12. <i>See, e.g.,</i> Pl.’s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.’s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15;</p>

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Claim 12	Accused Instrumentalities
	<a href="https://support.google.com/googlenest/answer/7072284?hl=en">https://support.google.com/googlenest/answer/7072284?hl=en</a> ; <a href="https://support.google.com/chromecast/answer/3046409?hl=en">https://support.google.com/chromecast/answer/3046409?hl=en</a> ; <a href="https://store.google.com/us/product/nest_wifi_specs?hl=en-US">https://store.google.com/us/product/nest_wifi_specs?hl=en-US</a> .
<p>[12.1] operating in a first mode in which the computing device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service;</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to operate in a first mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service. <i>See</i> claim limitation 1.4.</p>
<p>[12.2] while operating in the first mode, displaying a representation of one or more playback devices in a media playback system that are each i) communicatively coupled to the computing device over a data network and ii) available to accept playback responsibility for</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, while operating in the first mode, display a representation of one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii) available to accept playback responsibility for the remote playback queue. <i>See</i> claim limitation 1.5.</p>

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<b>Claim 12</b>	<b>Accused Instrumentalities</b>
<p>the remote playback queue;</p> <p><b>[12.3]</b> while displaying the representation of the one or more playback devices, receiving user input indicating a selection of at least one given playback device from the one or more playback devices;</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, while displaying the representation of the one or more Cast-enabled media players, receive user input indicating a selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players. <i>See</i> claim limitation 1.6.</p>
<p><b>[12.4]</b> based on receiving the user input, transmitting an instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device, wherein the instruction configures the at least one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item. <i>See</i> claim limitation 1.7.</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, based on receiving the user input, transmit an instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device, wherein the instruction configures the at least one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item. <i>See</i> claim limitation 1.7.</p>



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<b>Claim 12</b>	<b>Accused Instrumentalities</b>
<p>with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item</p>	
<p>[12.5] detecting an indication that playback responsibility for the remote playback queue has been successfully transferred from the computing device to the at least one given playback device;</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled control device to the at least one given Cast-enabled media player. <i>See</i> claim limitation 1.8.</p>

**Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033**  
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<b>Claim 12</b>	<b>Accused Instrumentalities</b>
<p>[12.6] and after detecting the indication, transitioning from i) the first mode in which the computing device is configured for playback of the remote playback queue to ii) a second mode in which the computing device is configured to control the at least one given playback device's playback of the remote playback queue and the computing device is no longer configured for playback of the remote playback queue.</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, after detecting the indication, transition from (i) the first mode in which the Cast-enabled control device is configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled control device is configured to control the at least one given Cast-enabled media player's playback of the remote playback queue and the Cast-enabled control device is no longer configured for playback of the remote playback queue. <i>See</i> claim limitation 1.9.</p>
<b>Claim 13</b>	<b>Accused Instrumentalities</b>
<p>[13.0] The non-transitory computer-readable medium of claim</p>	<p>As described above, each Cast-enabled control device and each Cast-enabled app download server comprises a “non-transitory computer-readable medium,” as recited in claim 12. Moreover, in accordance with the program instructions, each Cast-enabled control device is programmed such that the instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue</p>

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<b>Claim 13</b>	<b>Accused Instrumentalities</b>
<p>12, [13.1] wherein the instruction comprises an instruction for the cloud-based computing system associated with the cloud-based media service to provide the data identifying the next one or more media items to the given playback device for use in obtaining the at least one media item from the cloud-based computing system associated with the cloud-based media service.</p>	<p>from the Cast-enabled control device comprises an instruction for the cloud-based computing system associated with the cloud-based media service to provide the data identifying the next one or more media items to the given Cast-enabled media player for use in retrieving the at least one media item from the cloud-based computing system associated with the cloud-based media service. <i>See</i> claim limitation 2.1.</p>

<b>Claim 15</b>	<b>Accused Instrumentalities</b>
<p>[15.0] A method carried out by a computing device, the method comprising:</p>	<p>Google's "Cast" technology enables an "Android, iOS, or Web app to direct its streaming video and audio to a TV or sound system," where the app "becomes the remote control to play, pause, seek, rewind, stop, and otherwise control the media." <a href="https://developers.google.com/cast">https://developers.google.com/cast</a>. In Google's "Cast" framework, there are two core categories of devices: (1) "sender" devices, which are computing devices installed with a Cast-enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled site URL<sup>48</sup> (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com), and (2)</p>

<sup>48</sup> *See, e.g.,* <https://support.google.com/chromecast/answer/3265953?hl=en>.

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Claim 15	Accused Instrumentalities
	<p>“receiver” devices, which are Cast-enabled media players such as an audio or video playback device. <i>See, e.g.,</i> <a href="https://developers.google.com/cast/docs/developers">https://developers.google.com/cast/docs/developers</a>; <a href="https://developers.google.com/cast/glossary">https://developers.google.com/cast/glossary</a>; <a href="https://developers.google.com/cast/docs/ux_guidelines">https://developers.google.com/cast/docs/ux_guidelines</a>.</p> <p>There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to transfer playback of streaming media content from the user’s smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app. This includes Google’s own Cast-enabled apps, such as the YouTube app, YouTube Music app, the YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps, such as the Spotify app. <i>See, e.g.,</i> <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a>; <a href="https://www.google.com/chromecast/built-in/apps/">https://www.google.com/chromecast/built-in/apps/</a>. These Cast-enabled apps can be installed and run on any smartphone, tablet, or computer device that supports Android, iOS, Chrome, or browser-based apps, including Google’s own “Pixel” smartphone, tablet, and computer devices (<i>e.g.</i>, the Pixel, Pixel XL, Pixel 2, Pixel 2 XL, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, Pixel 4, Pixel 4 XL, Pixel 4a, Pixel 4a (5G), Pixel 5, Pixel 5a (5G), Pixel 6 phones, the Pixel Slate tablet, and the Pixelbook and Pixelbook Go laptops) as well as many third-party smartphone, tablet, or computer device. <i>See, e.g.,</i> <a href="https://store.google.com/us/magazine/compare_pixel">https://store.google.com/us/magazine/compare_pixel</a>; <a href="https://store.google.com/us/product/google_pixelbook_specs">https://store.google.com/us/product/google_pixelbook_specs</a>; <a href="https://store.google.com/us/product/pixel_slate_specs">https://store.google.com/us/product/pixel_slate_specs</a>. For purposes of this chart, any smartphone, tablet, or computer device installed with a Cast-enabled Android, iOS, Chrome, or browser-based app (<i>e.g.</i>, accessed via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app will be referred to as a “Cast-enabled computing device.”</p> <p>As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See</i> Appx. 1. Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices that were capable of being installed with a</p>

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Claim 15	Accused Instrumentalities
	<p>Cast-enabled app but notes that each possible third-party smartphone, tablet, and computer device listed in Appendix 1 was capable of being installed with a Cast-enabled app.</p> <p>There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google's own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.,</i> <a href="https://store.google.com/us/product/google_home_max?hl=en-US">https://store.google.com/us/product/google_home_max?hl=en-US</a>; <a href="https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US">https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US</a>; <a href="https://www.google.com/chromecast/built-in/audio/">https://www.google.com/chromecast/built-in/audio/</a>.</p> <p>Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-enabled media players to additionally function as a control device for other Cast-enabled media players. This sub-category of Cast-enabled media players, which will be referred to herein as “Cast-enabled displays,” includes Google's Home Hub, Nest Hub, and Nest Hub Max media players. <i>See, e.g.,</i> <a href="https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music">https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music</a>; <a href="https://store.google.com/us/product/google_nest_hub_max?hl=en-US">https://store.google.com/us/product/google_nest_hub_max?hl=en-US</a>; <a href="https://support.google.com/googlenest/answer/9165738?hl=en">https://support.google.com/googlenest/answer/9165738?hl=en</a>. Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps) that allows a user to transfer playback of streaming media content from the Cast-enabled display to another Cast-enabled media player and then control that other Cast-enabled media player's playback using the Cast-enabled display's user interface. For purposes of this chart, Cast-enabled computing devices and Cast-enabled displays may be referred to collectively as “Cast-enabled control devices.”</p> <p>Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google (sometimes referred to as Google Cloud Platform or “GCP” for short) that facilitates the aforementioned Cast functionality for transferring playback of streaming media content from a Cast-enabled control device to a Cast-enabled media player and/or controlling the Cast-enabled media player's playback.</p> <p>As described in further detail below, each Cast-enabled control device is a “computing device” that practices the method of claim 15. Further, because each Cast-enabled media player is a data network device (<i>i.e., a</i></p>

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Claim 15	Accused Instrumentalities
	<p>device that is configured to connect to and communicate over a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other) and is configured to process and output audio, each Cast-enabled media player is a “playback device” as recited in claim 15. <i>See, e.g.,</i> Pl.’s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.’s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15; <a href="https://support.google.com/chromecast/answer/3046409?hl=en">https://support.google.com/chromecast/answer/3046409?hl=en</a>; <a href="https://store.google.com/us/product/nest_wifi_specs?hl=en-US">https://store.google.com/us/product/nest_wifi_specs?hl=en-US</a>.</p>
<p>[15.1] operating in a first mode in which the computing device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service;</p>	<p>Each Cast-enabled control device practices the step of operating in a first mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service. <i>See</i> claim limitation 1.4.</p>
<p>[15.2] while operating in the first mode, displaying a representation of one or more playback devices in a media playback system that are each i) communicatively</p>	<p>Each Cast-enabled control device practices the step of, while operating in the first mode, displaying a representation of one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii) available to accept playback responsibility for the remote playback queue. <i>See</i> claim limitation 1.5.</p>



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<b>Claim 15</b>	<b>Accused Instrumentalities</b>
coupled to the computing device over a data network and ii) available to accept playback responsibility for the remote playback queue;	
<b>[15.3]</b> while displaying the representation of the one or more playback devices, receiving user input indicating a selection of at least one given playback device from the one or more playback devices;	Each Cast-enabled control device practices the step of, while displaying the representation of the one or more Cast-enabled media players, receiving user input indicating a selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players. <i>See</i> claim limitation 1.6.
<b>[15.4]</b> based on receiving the user input, transmitting an instruction for the at least one given playback device to take over responsibility for playback of the one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item. <i>See</i> claim limitation 1.7.	Each Cast-enabled control device practices the step of, based on receiving the user input, transmitting an instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device, wherein the instruction configures the at least one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item. <i>See</i> claim limitation 1.7.









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<b>Claim 15</b>	<b>Accused Instrumentalities</b>
<p>wherein the instruction configures the at least one given playback device to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item;</p>	
<p>[15.5] detecting an indication that playback responsibility for the remote playback queue has been successfully</p>	<p>Each Cast-enabled control device practices the step of detecting an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled control device to the at least one given Cast-enabled media player. <i>See</i> claim limitation 1.8.</p>

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Claim 15	Accused Instrumentalities
<p>transferred from the computing device to the at least one given playback device;</p>	
<p>[15.6] and after detecting the indication, transitioning from i) the first mode in which the computing device is configured for playback of the remote playback queue to ii) a second mode in which the computing device is configured to control the at least one given playback device's playback of the remote playback queue and the computing device is no longer configured for playback of the remote playback queue.</p>	<p>Each Cast-enabled control device practices the step of, after detecting the indication, transitioning from (i) the first mode in which the Cast-enabled control device is configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled control device is configured to control the at least one given Cast-enabled media player's playback of the remote playback queue and the Cast-enabled control device is no longer configured for playback of the remote playback queue. See claim limitation 1.9.</p>

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Claim 16	Accused Instrumentalities
<p><b>[16.0]</b> The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising: <b>[16.1]</b> before displaying the representation of the one or more playback devices, receiving an indication that the one or more playback devices in the media playback system are available to accept playback responsibility for the remote playback queue.</p>	<p>As described above, each Cast-enabled control device is a “computing device” as recited in claim 1. Moreover, each Cast-enabled control device further comprises instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to, before displaying the representation of the one or more Cast-enabled media players, receive an indication that the one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue.</p> <p>For instance, each Cast-enabled control device is programmed with the capability to, before displaying a list of available devices for transferring playback that includes one or more Cast-enabled media players in a Cast-enabled playback system, receive an indication that the one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue, which is demonstrated by the fact that each Cast-enabled control device is capable of displaying the list of devices that are available for casting. See, e.g., <a href="https://support.google.com/googlenest/answer/7181830">https://support.google.com/googlenest/answer/7181830</a> [Play media from Chromecast-enabled apps to your speaker or display] (“Tap the Cast button  . . . Tap the speaker or display for which you’d like to cast.”); <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers] (“2. In the top right corner, tap the Cast button  3. Choose your speaker.”); <a href="https://support.google.com/chromecast/answer/2995235?hl=en-AU">https://support.google.com/chromecast/answer/2995235?hl=en-AU</a> [Cast from the YouTube app and YouTube.com] (“Tap the Cast button  . . . Tap the Chromecast device to which you want to cast.”); <a href="https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en">https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&amp;hl=en</a> [Cast YouTube TV using Chromecast] (“Tap Cast  . This is found at the top of the app Home screen.  Choose the device you want to cast to.”); <a href="https://support.google.com/youtubekids/answer/6289408?hl=en&amp;co=GENIE.Platform%3DAndroid">https://support.google.com/youtubekids/answer/6289408?hl=en&amp;co=GENIE.Platform%3DAndroid</a> [Watch YouTube Kids videos on your TV]; <a href="https://support.google.com/chromecast/answer/3265953?hl=en">https://support.google.com/chromecast/answer/3265953?hl=en</a> [Chromecast-enabled site vs. casting a tab]; <a href="https://support.google.com/googlenest/answer/9563059?hl=en-IN">https://support.google.com/googlenest/answer/9563059?hl=en-IN</a> [Move media from one cast device to another] (“At the bottom-left corner of the screen, tap Devices  to see the list of available devices and speaker groups. . . . Select the device for which you want to move your media.”).</p> <p>This functionality is evidenced by the screenshots above in connection with claim limitation 1.5, which demonstrate that a Cast-enabled control device installed with any one of the YouTube app, the YouTube</p>


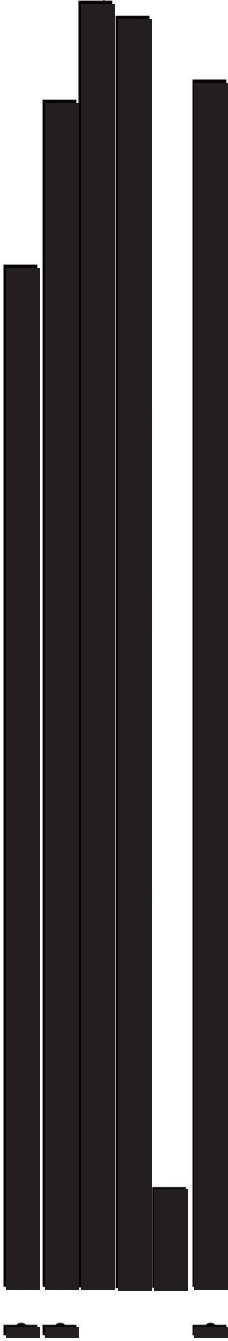
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033  
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Claim 16	Accused Instrumentalities
	<p>Music app, the YouTube TV app, or the Spotify app (among other Cast-enabled apps) functions to receive an indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue.</p> <p>The evidence also shows that a Cast-enabled control device receives this indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue as part of performing one or more discovery processes (e.g., a Cast-based and/or DIAL-based discovery process). Representative examples of this evidence are identified below.</p> <p><u><i>YouTube, YouTube Music, YouTube TV, &amp; YouTube Kids apps</i></u></p> <p>The following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <div><div></div><div></div><div></div><div></div></div>

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Claim 16	Accused Instrumentalities
	<div data-bbox="228 254 971 1535" style="background-color: black; width: 100%; height: 100%;"></div> <div data-bbox="1008 212 1195 1566"><div data-bbox="1008 827 1045 1514" style="background-color: black; width: 100%; height: 100%;"></div><div data-bbox="1045 254 1083 1514" style="background-color: black; width: 100%; height: 100%;"></div><div data-bbox="1083 254 1120 1514" style="background-color: black; width: 100%; height: 100%;"></div><div data-bbox="1120 212 1157 1514" style="background-color: black; width: 100%; height: 100%;"></div><div data-bbox="1157 659 1195 1514" style="background-color: black; width: 100%; height: 100%;"></div></div>

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Claim 16	Accused Instrumentalities
	<div data-bbox="243 296 943 1497"></div> <div data-bbox="1021 231 1247 1564"></div>




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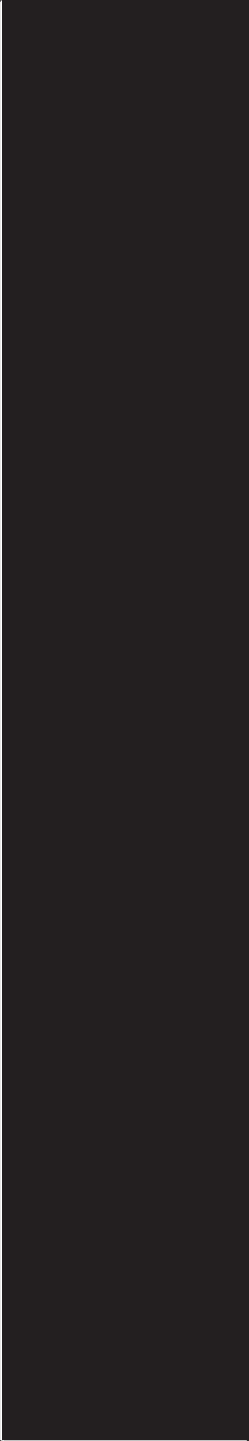
Claim 16	Accused Instrumentalities
	<p>Representative excerpts of Google’s YouTube<sup>49</sup>, YouTube Music<sup>50</sup>, YouTube TV<sup>51</sup>, and YouTube Kids<sup>52</sup> app source code related to the aforementioned functionality include:</p> <div></div> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. See Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u><i>Spotify app</i></u></p> <p>Each Cast-enabled control device installed with the Spotify app (which is Cast-enabled and utilizes the Cast SDK) is programmed to receive an indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue as part of performing one or more discovery processes, such as a discovery process facilitated by the Cast SDK, as demonstrated by the following exemplary evidence:</p> <div></div>



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Claim 16	Accused Instrumentalities
	<div data-bbox="228 302 305 1516" style="background-color: black; width: 100%; height: 100%;"></div> <ul style="list-style-type: none"> <li> <a href="https://support.google.com/chromecast/answer/6279384?hl=en">https://support.google.com/chromecast/answer/6279384?hl=en</a> [Cast audio from Chromecast-enabled apps to speakers] (listing Spotify as one of the “Chromecast-enabled apps”).         </li> </ul> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u><i>Cast-Enabled Displays</i></u></p> <p>The following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <div data-bbox="743 254 899 1562" style="background-color: black; width: 100%; height: 100%;"></div> <ul style="list-style-type: none"> <li> <a href="https://support.google.com/googlenest/answer/9563059?hl=en-IN">https://support.google.com/googlenest/answer/9563059?hl=en-IN</a> [Move media from one cast device to another] (“At the bottom-left corner of the screen, tap Devices  to see the list of available devices and speaker groups.”).         </li> </ul> <p>Representative excerpts of Google’s source code<sup>53</sup> related to the aforementioned functionality include:</p> <div data-bbox="1101 174 1360 1646" style="background-color: black; width: 100%; height: 100%;"></div>

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Claim 16	Accused Instrumentalities
	 <p data-bbox="495 189 599 1621">Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. See Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>